

Amendments to the Specification

Please replace the pending title with the following title:

Methods for Treating Cancer Using Cytokine-Expressing Polynucleotides

~~Treatment of Cancer Using Cytokine-Expressing Polynucleotides and Compositions
Therefor~~

Please replace the pending abstract with the following abstract:

The present invention provides a pharmaceutical composition, comprising a non-infectious, non-integrating polynucleotide construct comprising a polynucleotide encoding an interferon ω and one or more cationic compounds. The present invention also provides methods of treating cancer in a mammal, comprising administering into a muscle tissue of the mammal a non-infectious, non-integrating DNA polynucleotide construct comprising a polynucleotide encoding a cytokine. In addition, the present invention also relates to the methodology for selective transfection of malignant cells with polynucleotides expressing therapeutic or prophylactic molecules in intra-cavity tumor bearing mammals. More specifically, the present invention provides a methodology for the suppression of an intra-cavity dissemination of malignant cells, such as intraperitoneal dissemination. Furthermore, the invention relates to compositions and methods to deliver polynucleotides encoding polypeptides to vertebrate cells in vivo, where the composition comprises an aqueous solution of sodium phosphate.